

4.2.E. 0801020707.

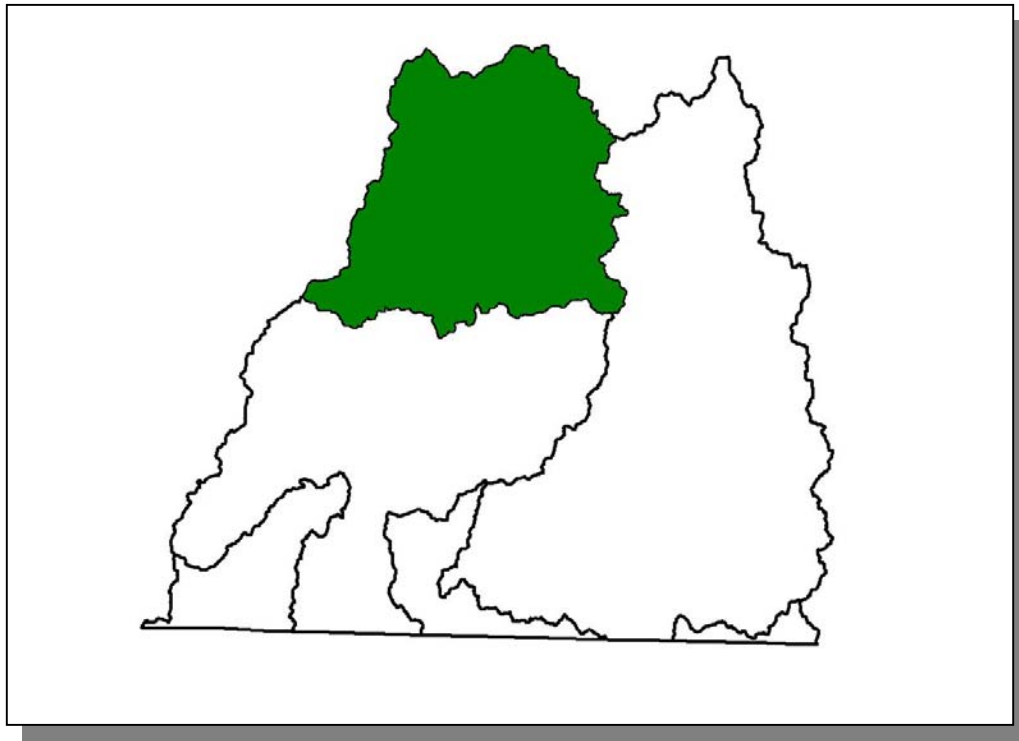


Figure 4-68. Location of Subwatershed 0801020707. All Little Hatchie River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.2.E.i. 080102070701 (Upper Little Hatchie Creek).

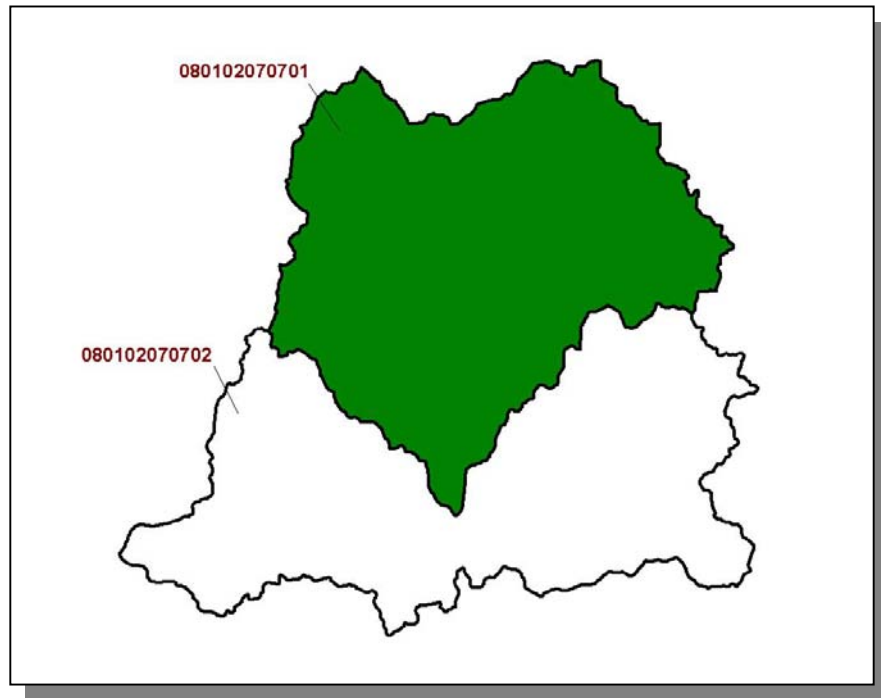


Figure 4-69. Location of Subwatershed 080102070701. All HUC-12 subwatershed boundaries in Tennessee are shown for reference.

MRLC 2001 Landuse

- Unclassified
- Open Water
- Developed Open Space
- Low Intensity Development
- Medium Intensity Development
- High Intensity Development
- Bare Rock/Sand/Clay
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Row Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

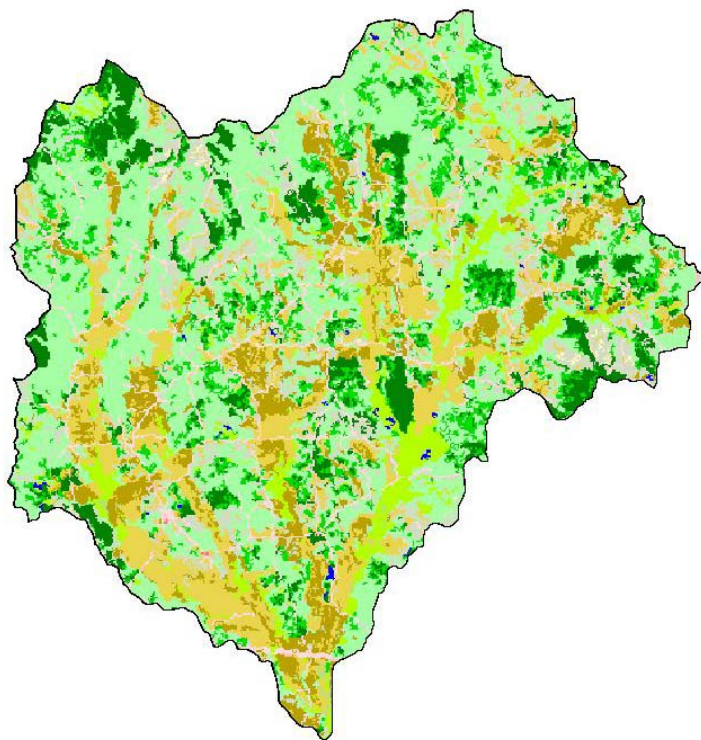


Figure 4-70. Illustration of Land Use Distribution in Subwatershed 080102070701.

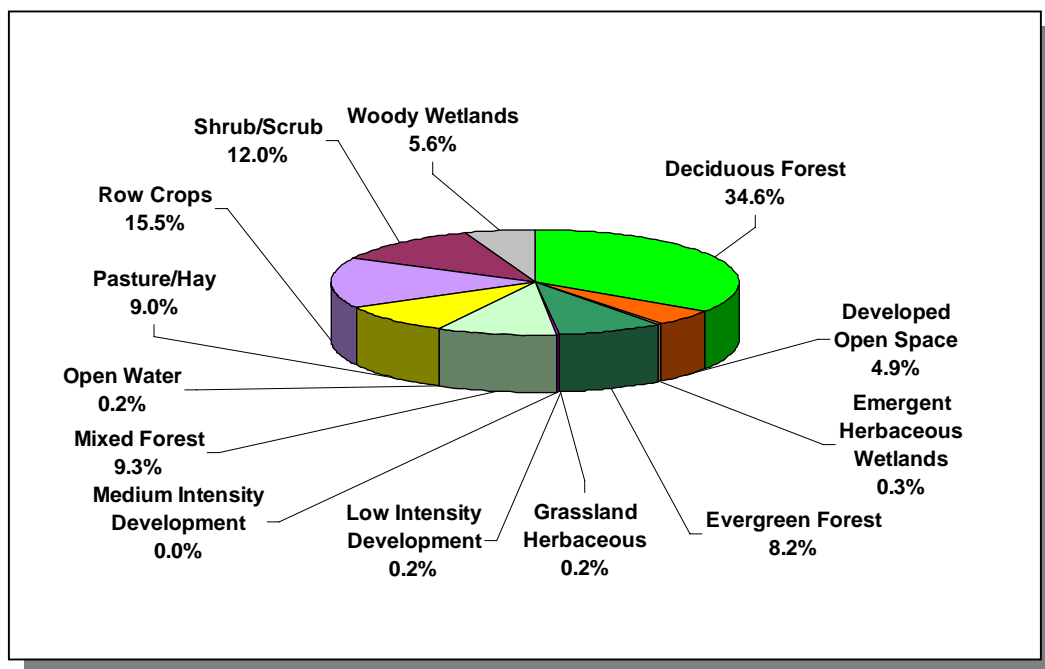


Figure 4-71. Land Use Distribution in Subwatershed 080102070701. More information is provided in Appendix IV.

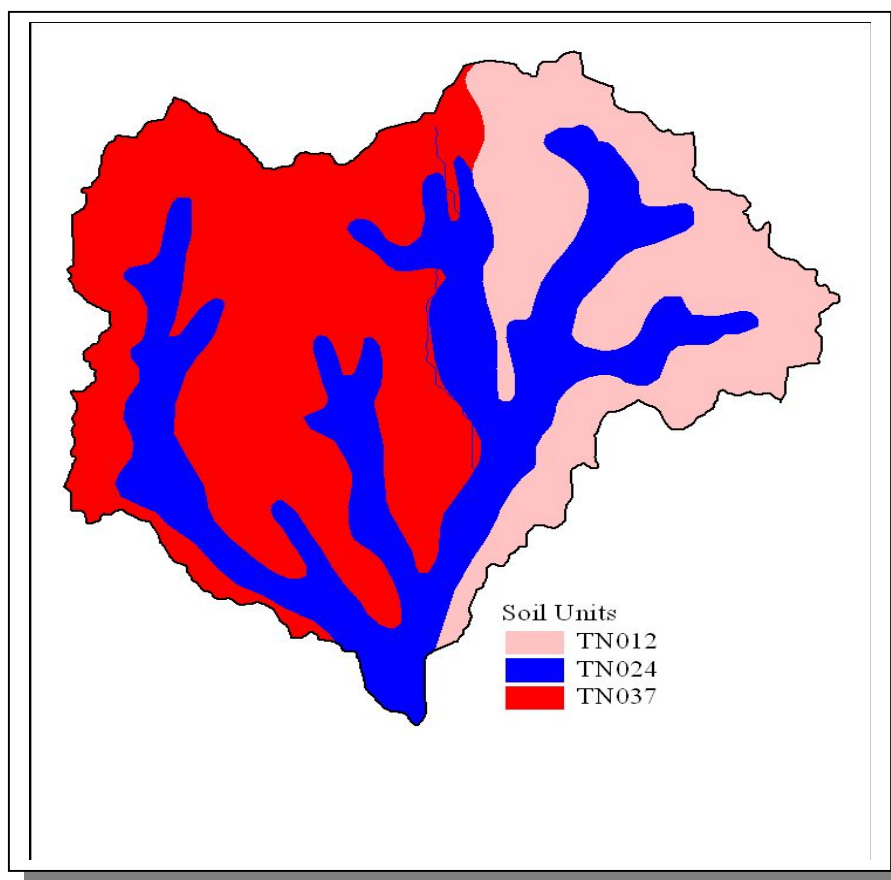


Figure 4-72. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102070701.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN012	1.00	C	2.52	5.13	Silty Loam	0.39
TN024	61.00	D	2.18	5.35	Loam	0.29
TN037	0.00	C	3.51	4.86	Sandy Loam	0.27

Table 4-68. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102070701. The definition of "Hydrologic Group" is provided in Appendix IV.

DRAFT

County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Chester	12,819	14,469	15,540	6.46	828	934	1,003	21.1
Hardeman	23,377	24,702	28,105	0.03	8	8	9	12.5
McNairy	22,422	23,678	24,653	4.8	1,076	1,137	1,183	9.9
Total	58,618	62,849	68,298		1,912	2,079	2,195	14.8

Table 4-69. Population Estimates in Subwatershed 080102070701.

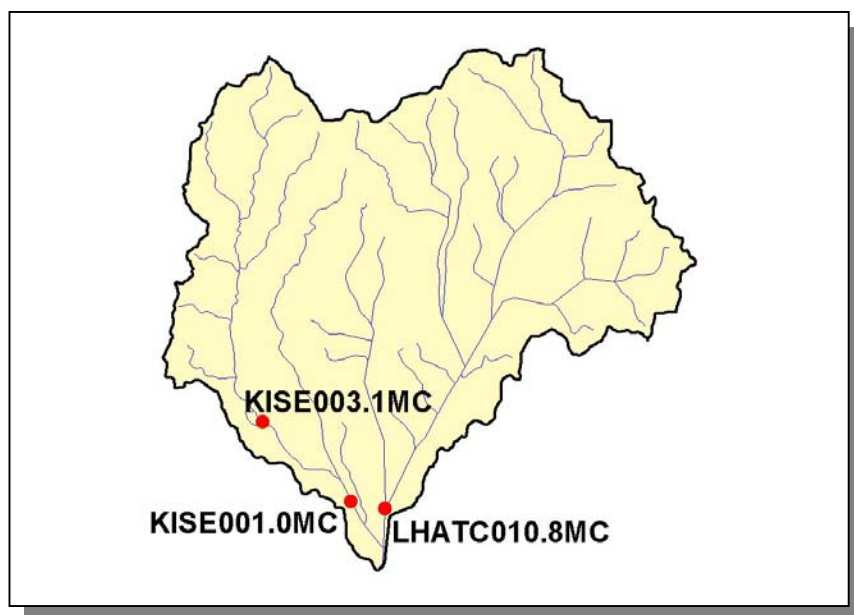


Figure 4-73. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102070701. More information, including site names and locations, is provided in Appendix IV.

DRAFT

4.2.E.i.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.E.i.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS				
Beef Cow	Cattle	Chickens (Layers)	Hogs	Sheep
221	2,671	<5	774	4

Table 4-70. Summary of Livestock Count Estimates in Subwatershed 080102070701. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Chester	0	9,108	0	14	1,334	0
Hardeman	9,184	15,877	62	28	5,221	144
McNairy	5,659	10,365	7	491	11,346	98

Table 4-71. Summary of Livestock Count Estimates in Chester, Hardeman, and McNairy Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Chester	99.4	99.4	0.3	1.3
Hardeman	247.1	247.1	5.0	18.6
McNairy				

Table 4-72. Forest Acreage and Annual Removal Rates (1987-1994) in Chester, Hardeman, and McNairy Counties.

DRAFT

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.47
Grass (Hayland)	0.16
Legumes, Grass (Hayland)	0.12
Legumes (Haylandd)	0.12
Grass, Forbs, Legumes (Mixed Pasture)	0.51
Corn (Row Crops)	10.61
Cotton (Row Crops)	11.33
Sorghum (Row Crops)	3.61
Soybeans (Row Crops)	8.29
Wheat (Close-Grown Cropland)	5.51
Other Vegetable and Truck Crops	28.15
Summer Fallow (Other Cropland)	6.11
Other Cropland not Planted	1.43
Conservation Reserve Program Lands	0.35
Farmsteads and Ranch Headquarters	0.10

Table 4-73. Annual Estimated Total Soil Loss in Subwatershed 080102070701.

4.2.E.ii. 080102070702 (Lower Little Hatchie Creek).

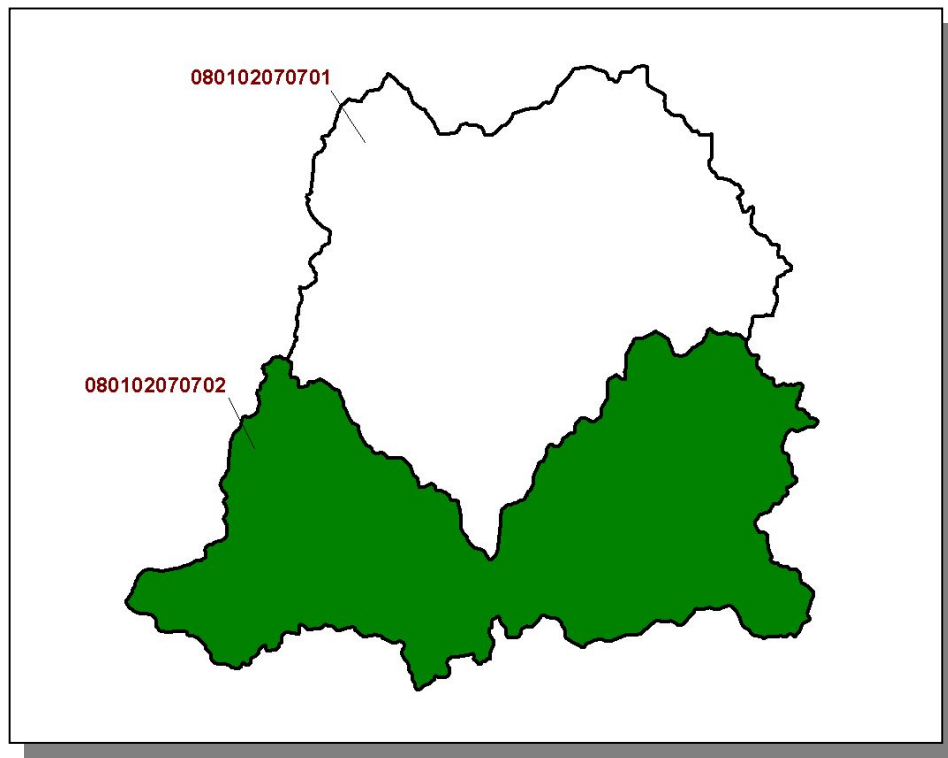


Figure 4-74. Location of Subwatershed 080102070702. All Little Hatchie HUC-12 subwatershed boundaries in Tennessee are shown for reference.

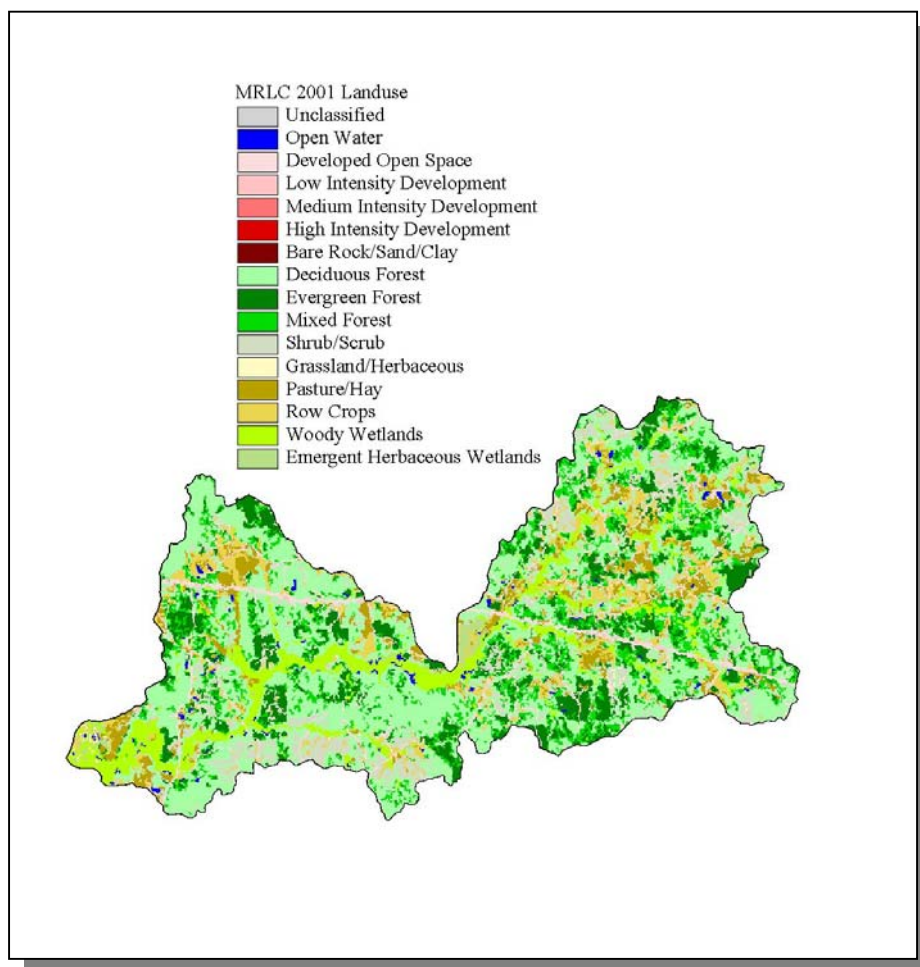


Figure 4-75. Illustration of Land Use Distribution in Subwatershed 080102070702.

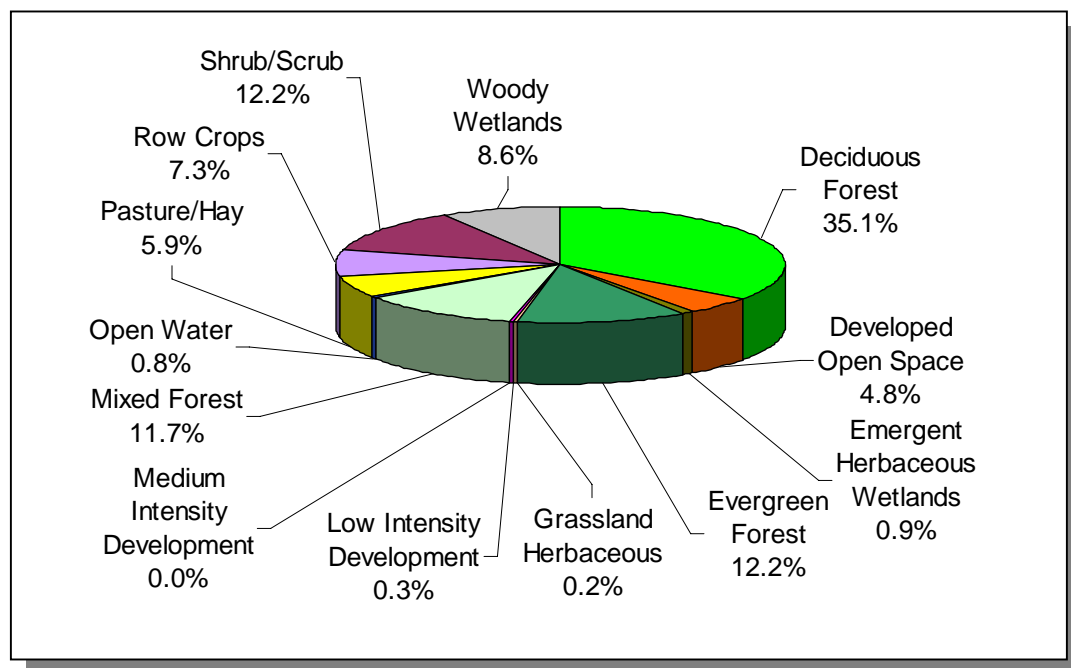


Figure 4-76. Land Use Distribution in Subwatershed 080102070202. More information is provided in Appendix IV.

DRAFT

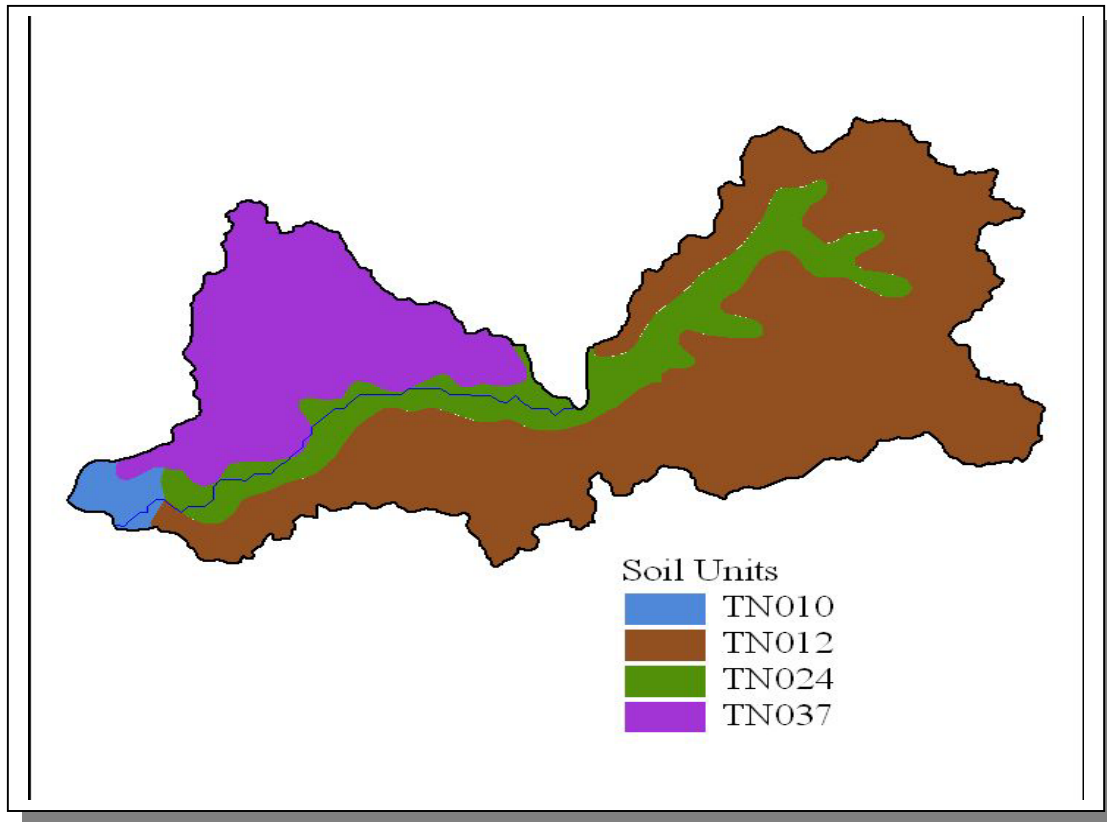


Figure 4-77. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102070702.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN010	81.00	C	1.33	5.11	Silty Loam	0.44
TN012	1.00	C	2.52	5.13	Silty Loam	0.39
TN024	61.00	D	2.18	5.35	Loam	0.29
TN037	0.00	C	3.51	4.86	Sandy Loam	0.27

Table 4-74. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102070702. The definition of "Hydrologic Group" is provided in Appendix IV.

County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Hardeman	23,377	24,702	28,105	1.24	289	306	348	20.4
McNairy	22,422	23,678	24,653	6.13	1,376	1,453	1,512	9.9
Total	45,799	48,380	52,758		1,665	1,759	1,860	11.7

Table 4-75. Population Estimates in Subwatershed 060101040702.

DRAFT

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Bethel Springs	McNairy	765	347	9	334	4
Selmer	McNairy	3,838	1,780	1,593	155	32
Hornsby	Hardeman	293	128	8	115	5
Total		4,896	2,255	1,610	604	41

Table 4-76. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 080102070702.

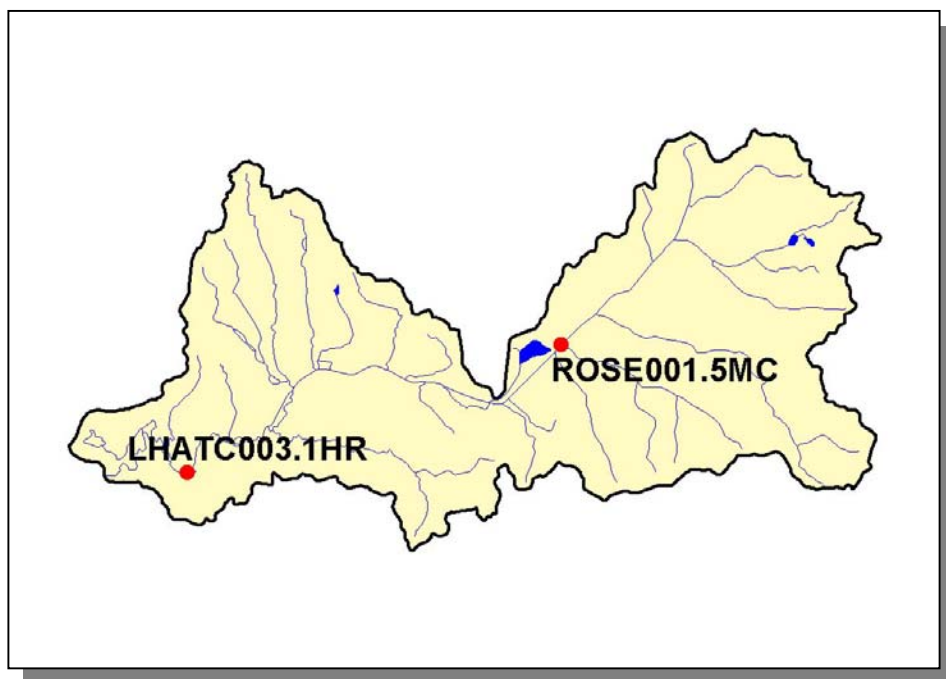


Figure 4-78. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102070702. More information, including site names and locations, is provided in Appendix IV.

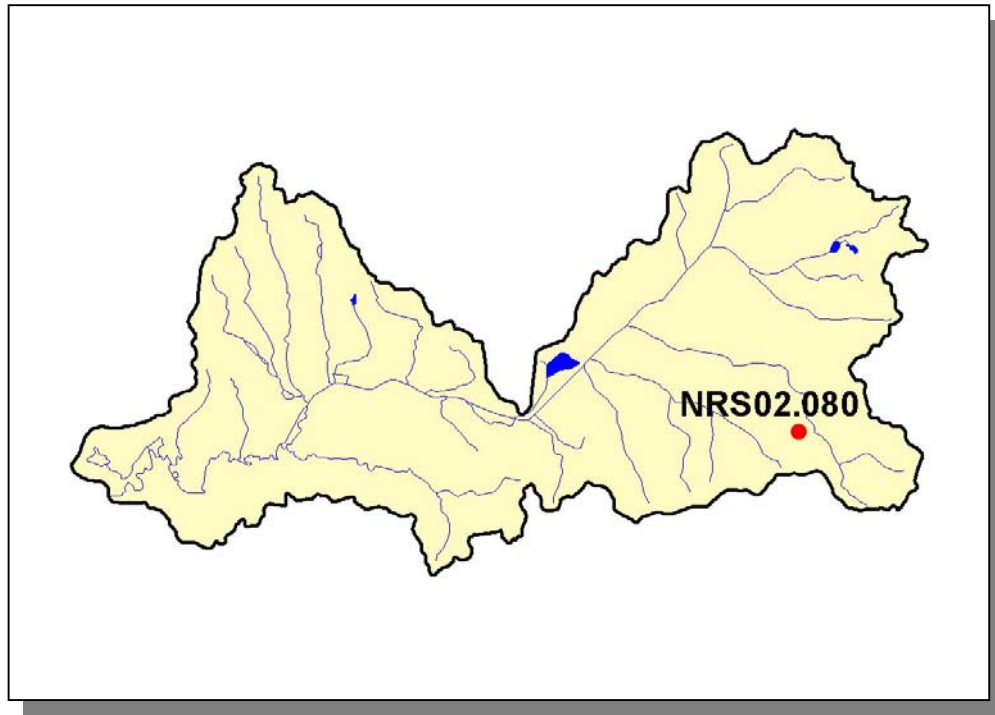


Figure 4-79. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 080102070702. More information is provided in Appendix IV.

4.2.E.ii.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.E.ii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
374	671	<5	<5	551	6

Table 4-77. Summary of Livestock Count Estimates in Subwatershed 080102070702. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

DRAFT

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Hardeman	9,184	15,877	62	28	5,221	144
McNairy	5,659	10,365	7	491	11,346	98

Table 4-78. Summary of Livestock Count Estimates in Hardeman and McNairy Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

	INVENTORY		REMOVAL RATE	
County	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Hardeman	247.1	247.1	5.0	18.6
McNairy				

Table 4-79. Forest Acreage and Annual Removal Rates (1987-1994) in Hardeman and McNairy Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.68
Grass (Hayland)	0.12
Legumes, Grass (Hayland)	0.07
Legumes (Hayland)	0.12
Grass, Forbs, Legumes (Mixed Pasture)	0.68
Corn (Row Crops)	11.10
Cotton (Row Crops)	9.41
Sorghum (Row Crops)	3.50
Soybeans (Row Crops)	10.37
Wheat (Close-Grown Cropland)	4.47
Summer Fallow (Other Cropland)	6.11
Other Cropland not Planted	2.65
Conservation Reserve Program Lands	0.28
Farmsteads and Ranch Headquarters	0.27

Table 4-80. Annual Estimated Total Soil Loss in Subwatershed 080102070702.